

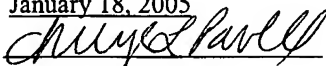


IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

I hereby certify that this correspondence and the document referred to as attached therein are being transmitted via First Class Mail on the date indicated below and directed to: Mail Stop Amendment, Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

Date: January 18, 2005

By:



Cheryl L. Powell

Mail Stop Amendment
Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

REVOCATION AND SUBSTITUTION OF POWER OF ATTORNEY

Dear Sir:

I hereby revoke all previous powers of attorney or authorizations of agent given in the patent applications listed below and any continuations or divisionals. I hereby appoint All Practitioners at Customer Number 08933 to prosecute all applications listed below and any continuations or divisionals and to transact all business in the United States Patent and Trademark Office connected therewith.

I hereby appoint the following additional attorneys, to prosecute this application and to transact all business in the United States Patent and Trademark Office connected therewith:

Chien Chou
Simon Lu

Registration Number: 41,672
Registration Number: 51,974

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PATENT

Please change the correspondence address for all the applications listed below to:

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All telephone calls for all applications listed below should be addressed to Steven E. Koffs at (215) 979-1250

CERTIFICATE UNDER 37 CFR 3.73(b)

Taiwan Semiconductor Manufacturing Co., Ltd., a Corporation

(Name of Assignee)(Type of Assignee, e.g., corporation, partnership, university, government agency, etc.)

certifies that it is the assignee of the entire right, title and interest in the patent applications identified below by virtue of an assignment from the inventor(s) of the patent applications:

| Serial No. | Filing Date | Assignment Information |
|------------|-------------|---|
| 09/285,986 | 04/05/1999 | Assignment recorded in the Patent and Trademark Office at Reel 98781, Frame 0880 |
| 09/633,644 | 08/07/2000 | Assignment recorded in the Patent and Trademark Office at Reel 011005, Frame 0900 |
| 09/679,514 | 10/06/2000 | Assignment recorded in the Patent and Trademark Office at Reel 011228, Frame 0408 |
| 09/961,557 | 09/24/2001 | Assignment recorded in the Patent and Trademark Office at Reel 012210, Frame 0901 |
| 10/074,881 | 02/12/2002 | Assignment recorded in the Patent and Trademark Office at Reel 012594, Frame 0025 |
| 10/126,388 | 04/19/2002 | Assignment recorded in the Patent and Trademark Office at Reel 012839, Frame 0167 |
| 10/134,823 | 04/26/2002 | Assignment recorded in the Patent and Trademark Office at Reel 012869, Frame 0133 |
| 10/197,327 | 07/17/2002 | Assignment recorded in the Patent and Trademark Office at Reel 013121, Frame 0429 |
| 10/243,414 | 09/13/2002 | Assignment recorded in the Patent and Trademark Office at Reel 013303, Frame 0192 |
| 10/253,270 | 09/24/2002 | Assignment recorded in the Patent and Trademark Office at Reel 013328, Frame 0885 |
| 10/263,542 | 10/03/2002 | Assignment recorded in the Patent and Trademark Office at Reel 013361, Frame 0026 |
| 10/271,005 | 10/15/2002 | Assignment recorded in the Patent and Trademark Office at Reel 012357, Frame 0838 |

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| 10/289,761 | 11/07/2002 | Assignment recorded in the Patent and Trademark Office at Reel 013477, Frame 0227 |
| 10/314,664 | 12/09/2002 | Assignment recorded in the Patent and Trademark Office at Reel 013559, Frame 0644 |
| 10/348,388 | 01/21/2003 | Copy of Assignment attached |
| 10/410,121 | 04/09/2003 | Assignment recorded in the Patent and Trademark Office at Reel 013959, Frame 0600 |
| 10/613,694 | 07/03/2003 | Assignment recorded in the Patent and Trademark Office at Reel 012163, Frame 0350 |
| 10/724,784 | 12/01/2003 | Copy of Assignment attached |
| 10/755,496 | 01/12/2004 | Assignment recorded in the Patent and Trademark Office at Reel 013129, Frame 0294 |
| 10/812,729 | 03/30/2004 | Copy of Assignment attached |
| 10/833,178 | 04/27/2004 | Copy of Assignment attached |
| 10/833,176 | 04/27/2004 | Assignment recorded in the Patent and Trademark Office at Reel 011983, Frame 0805 |
| 10/833,565 | 04/28/2004 | Copy of Assignment attached |
| 10/838,674 | 05/04/2004 | Copy of Assignment attached |

The undersigned has reviewed all the documents in the chain of title of the patent applications identified above and, to the best of undersigned's knowledge and belief, title is in the assignee identified above.

The undersigned (whose title is supplied below) is empowered to sign this certificate on behalf of the assignee.

I hereby declare that all statements made herein of my own knowledge are true, and that all statements made on information and belief are believed to be true; and further, that these statements are made with the knowledge that willful false statements, and the like so made, are punishable by fine or imprisonment, or both, under Section 1001, Title 18 of the United States Code, and that such willful false statements may jeopardize the validity of the application or any patent issuing thereon.

Date: 9/1/2004

By:



Name: Chien-Wei Chou

Title: Director, Intellectual Property Division